

Recombinant Human Retinol Binding Protein 4, Plasma

Cat. No. RBP4-111H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human RBP-4 produced in <i>E. Coli</i> is a single, non-glycosylated, polypeptide chain containing 184 amino acids and having a molecular mass of 21 kDa. The Retinol Binding Protein-4 is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Protein Length	19-201 a.a.
Description	Retinol binding protein 4(RBP4) belongs to the lipocalin family and is the specific carrier for retinol (vitamin A alcohol) in the blood. This protein was found to be expressed and secreted by adipose tissue, and was strongly associated with insulin resistance. It delivers retinol from the liver stores to the peripheral tissues. In plasma, the RBP-retinol complex interacts with transthyretin which prevents its loss by filtration through the kidney glomeruli. RBP4 delivers retinol from the liver to the peripheral tissues. In plasma, the rbp-retinol complex interacts with transthyretin, this prevents its loss by filtration through the kidney glomeruli.
Physical Appearance	Sterile Filtered colorless solution.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

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Formulation	1 mg/ml in PBS pH-7.4.
Amino Acid Sequence	MERDCRVSSF RVKENFDKAR FSGTWYAMAK KDPEGLFLQD NIVAEFSVDE TGQMSATAKGRVRLNNWDV CADMVGTFD TEDPAKFKMK YWGVASFLQK GNDDHWIVDT DYDTYAVQYS CRLNLDGTC ADSYSFVFSR DPNGLPPEAQ KIVRQRQEEL CLARQYRLIV HNGYCDGRSE RNLL.
Storage	Liquid RBP4 although stable at 10°C for 1 week, should be stored below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	RBP4 retinol binding protein 4, plasma [Homo sapiens]
Synonyms	Retinol Binding Protein 4; RBP-4; RBP4; Plasma retinol-binding protein; PRBP; RBP; OTTHUMP00000020114; OTTHUMP00000020116; retinol binding protein 4, plasma; retinol-binding protein 4, interstitial; PRO0222
Gene ID	5950
mRNA Refseq	NM_006744
Protein Refseq	NP_006735
MIM	180250
UniProt ID	P02753
Chromosome Location	10q23-q24

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Function

binding; retinal binding; retinol binding; retinol transporter activity; transporter activity

**Retinol binding
protein 4, plasma**



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